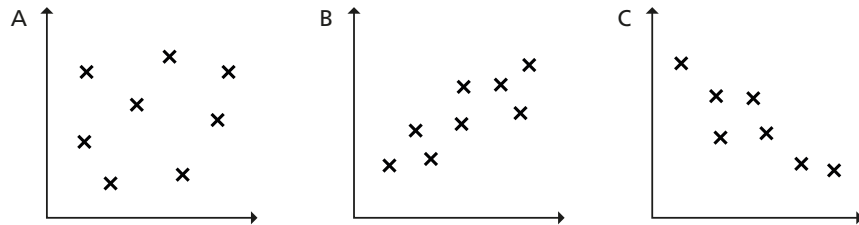


1 Match each scatter graph to a description.

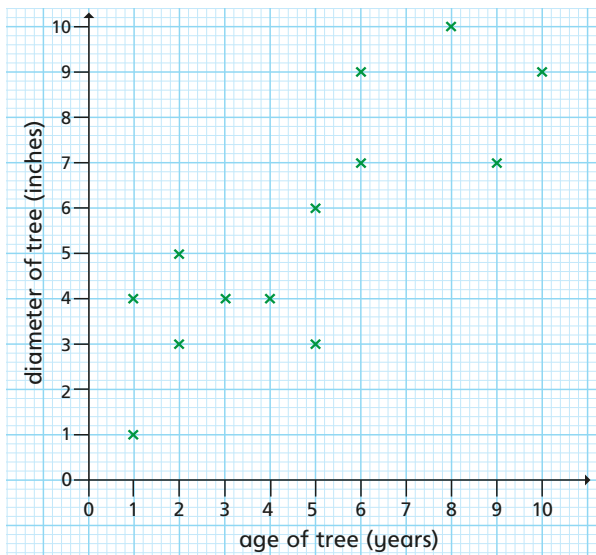


Length of child's foot and their height?

Length of foot and house number?

Outside temperature and number of snowmen made?

2 Here is a scatter graph for the age of a tree and the diameter of its trunk.



Complete the sentences.

As the age of the tree \_\_\_\_\_, the diameter of the trunk \_\_\_\_\_

This shows \_\_\_\_\_ correlation.

3 The table shows the lengths and weights of ten pet mice.

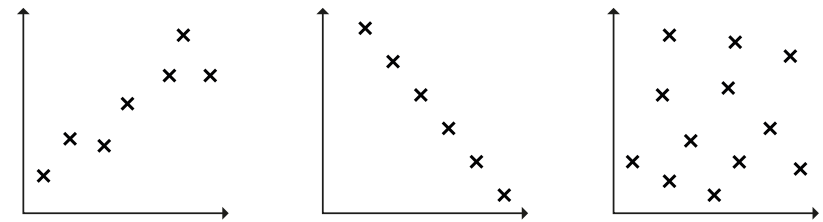
Length (cm)	8.4	8.7	9.5	9.6	10.4	11	11.3	12.2	12.5	13.6
Weight (g)	15.4	15.9	18.4	17.9	18.8	19.5	20	20.1	20.8	21.3

a) Plot the information on a graph.

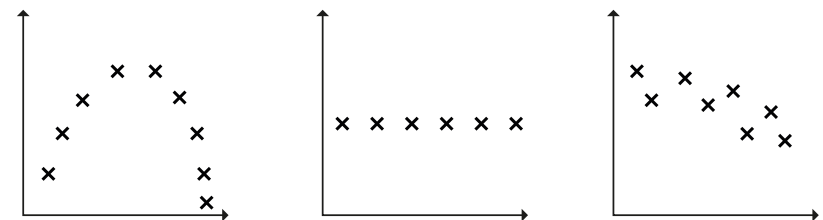
b) Describe the type of correlation shown.

c) What does this tell you about the relationship between the length and weight of a mouse?

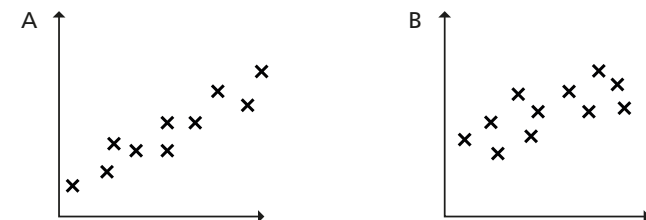
4 a) Which graph shows a positive correlation?



b) Which graph shows a negative correlation?



c) Which graph shows the strongest positive correlation?



Explain your reasoning.

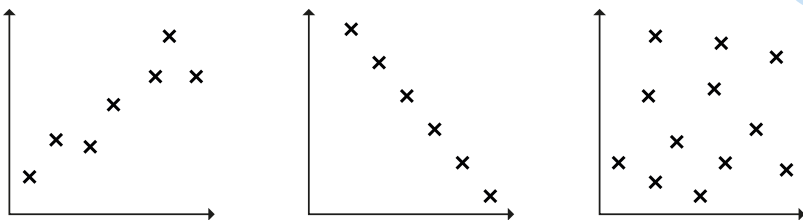
3 The table shows the lengths and weights of ten pet mice.

Length (cm)	8.4	8.7	9.5	9.6	10.4	11	11.3	12.2	12.5	13.6
Weight (g)	15.4	15.9	18.4	17.9	18.8	19.5	20	20.1	20.8	21.3

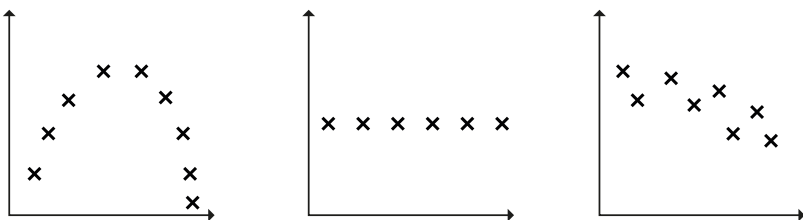
- Plot the information on a graph.
- Describe the type of correlation shown.
- What does this tell you about the relationship between the length and weight of a mouse?



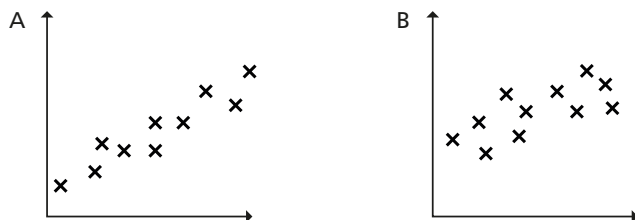
4 a) Which graph shows a positive correlation?



b) Which graph shows a negative correlation?



c) Which graph shows the strongest positive correlation?



Explain your reasoning.



5 On a TV quiz, contestants can win an amount of money between £1,000 and £75,000

The table shows the ages of 12 contestants and their winnings.

Age (years)	26	30	18	64	44	31
Winnings (£)	5,000	17,000	75,000	1,800	2,000	32,000

Age (years)	48	20	35	42	50	21
Winnings (£)	16,000	2,000	36,000	19,000	1,900	41,000

- Draw a scatter graph to represent this information.
- Describe the type of correlation shown.
- Can you use your scatter graph to estimate the age of a contestant who won £50,000?  
Discuss with a partner.

